

*Amendments to the Claims*

This listing of claims will replace all prior versions and listings of claims.

1-30. (Canceled)

31. (Currently amended) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

(a) a protein consisting of amino acid residues 1 to 303 of SEQ ID NO:2;

(b) a protein consisting of amino acid residues 2 to 303 of SEQ ID NO:2;

~~(c) — a protein consisting of a portion of SEQ ID NO:2, wherein said portion comprises at least 30 contiguous amino acid residues of SEQ ID NO:2;~~

~~(d) — a protein consisting of a portion of SEQ ID NO:2, wherein said portion comprises at least 50 contiguous amino acid residues of SEQ ID NO:2;~~

(c) ~~(e)~~ a protein consisting of amino acid residues 1 to 277 of SEQ ID NO:4; and

(d) ~~(f)~~ a protein consisting of amino acid residues 2 to 277 of SEQ ID NO:4;

~~(g) — a protein consisting of a portion of SEQ ID NO:4, wherein said portion comprises at least 30 contiguous amino acid residues of SEQ ID NO:4; and~~

~~(h) — a protein consisting of a portion of SEQ ID NO:4, wherein said portion comprises at least 50 contiguous amino acid residues of SEQ ID NO:4.~~

32. (Previously presented) The antibody or fragment thereof of claim 31 that specifically binds protein (a).

33. (Previously presented) The antibody or fragment thereof of claim 31 that specifically binds protein (b).

34. (Previously presented) The antibody or fragment thereof of claim 31 that specifically binds protein (c).

35. (Previously presented) The antibody or fragment thereof of claim 31 that specifically binds protein (d).

36-39. (Canceled)

40. (Previously presented) The antibody or fragment thereof of claim 31 that specifically binds protein (a) and protein (b).

41. (Currently amended) The antibody or fragment thereof of claim 31 that specifically binds protein ~~(e)~~ (c) and protein ~~(f)~~ (d).

42. (Previously presented) The antibody or fragment thereof of claim 31 which is a human antibody.

43. (Previously presented) The antibody or fragment thereof of claim 31 which is a polyclonal antibody.

44. (Previously presented) The antibody or fragment thereof of claim 31 which is a monoclonal antibody.

45. (Previously presented) The antibody or fragment thereof of claim 31 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a humanized antibody;
- (c) a single chain antibody; and
- (d) an Fab fragment.

46. (Currently amended) ~~The~~ A labeled antibody or fragment thereof of claim 31 ~~which~~ wherein the antibody is labeled.

47. (Previously presented) The antibody or fragment thereof of claim 46 wherein the label is an enzyme.

48. (Previously presented) The antibody or fragment thereof of claim 31 wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

49. (Previously presented) An isolated cell that produces the antibody or fragment thereof of claim 31.

50. (Currently amended) A hybridoma that produces the antibody ~~or fragment~~ thereof of claim 31.

51. (Previously presented) A method of detecting an ICE-LAP 3 or 4 protein in a biological sample comprising:

- (a) contacting the biological sample with the antibody or fragment thereof of claim 31; and
- (b) detecting the ICE-LAP 3 or 4 protein in the biological sample.

52. (Previously presented) The method of claim 51 wherein the antibody or fragment thereof is a polyclonal antibody.

53. (Currently amended) An isolated antibody or fragment thereof obtained from an animal that has been immunized with a protein comprising an amino acid sequence selected from the group consisting of:

- (a) ~~a protein comprising~~ the amino acid sequence of amino acid residues 1 to 303 of SEQ ID NO:2;
- (b) ~~a protein comprising~~ the amino acid sequence of amino acid residues 2 to 303 of SEQ ID NO:2;
- ~~(c) a protein comprising an amino acid sequence consisting of at least 30 contiguous amino acid residues of SEQ ID NO:2;~~
- ~~(d) a protein comprising an amino acid sequence consisting of at least 50 contiguous amino acid residues of SEQ ID NO:2;~~

(c) ~~(e)~~ a ~~protein comprising~~ the amino acid sequence of amino acid residues 1 to 277 of SEQ ID NO:4; and

(d) ~~(f)~~ a ~~protein comprising~~ the amino acid sequence of amino acid residues 2 to 277 of SEQ ID NO:4;

~~(g) — a protein comprising an amino acid sequence consisting of at least 30 contiguous amino acid residues of SEQ ID NO:4; and~~

~~(h) — a protein comprising an amino acid sequence consisting of at least 50 contiguous amino acid residues of SEQ ID NO:4;~~

wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

54. (Previously presented) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (a).

55. (Previously presented) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (b).

56. (Previously presented) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (c).

57. (Previously presented) The antibody or fragment thereof of claim 53 obtained from an animal immunized with protein (d).

58-61. (Canceled)

62. (Previously presented) The antibody or fragment thereof of claim 53 which is a monoclonal antibody.

63. (Previously presented) The antibody or fragment thereof of claim 53 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.

64. (Currently amended) An isolated antibody or fragment thereof that specifically binds to a protein selected from the group consisting of:

(a) a protein consisting of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;

(b) a protein consisting of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;

~~(c) a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875, wherein said portion comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;~~

~~(d) a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875, wherein said portion comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;~~

(c) ~~(e)~~ a protein consisting of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873; and

(d) ~~(f)~~ a protein consisting of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873;

~~(g) — a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873, wherein said portion comprises at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873; and~~

~~(h) — a protein consisting of a portion of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873, wherein said portion comprises at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873.~~

65. (Previously presented) The antibody or fragment thereof of claim 64 that specifically binds protein (a).

66. (Previously presented) The antibody or fragment thereof of claim 64 that specifically binds protein (b).

67. (Previously presented) The antibody or fragment thereof of claim 64 that specifically binds protein (c).

68. (Previously presented) The antibody or fragment thereof of claim 64 that specifically binds protein (d).

69-72. (Canceled)

73. (Previously presented) The antibody or fragment thereof of claim 64 that specifically binds protein (a) and protein (b).

74. (Currently amended) The antibody or fragment thereof of claim 64 that specifically binds protein (c) ~~(e)~~ and protein (d) ~~(f)~~.

75. (Previously presented) The antibody or fragment thereof of claim 64 which is a human antibody.

76. (Previously presented) The antibody or fragment thereof of claim 64 which is a polyclonal antibody.

77. (Previously presented) The antibody or fragment thereof of claim 64 which is a monoclonal antibody.

78. (Previously presented) The antibody or fragment thereof of claim 64 which is selected from the group consisting of:

- (e) a chimeric antibody;
- (f) a humanized antibody;
- (g) a single chain antibody; and
- (h) an Fab fragment.

79. (Currently amended) ~~The~~ A labeled antibody or fragment thereof of claim 64 ~~which~~ wherein the antibody is labeled.

80. (Previously presented) The antibody or fragment thereof of claim 79 wherein the label is an enzyme.

81. (Previously presented) The antibody or fragment thereof of claim 64 wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

82. (Previously presented) An isolated cell that produces the antibody or fragment thereof of claim 64.

83. (Currently amended) A hybridoma that produces the antibody ~~or fragment thereof~~ of claim 64.

84. (Previously presented) A method of detecting ICE-LAP 3 or 4 protein in a biological sample comprising:

(a) contacting the biological sample with the antibody or fragment thereof of claim 64; and

(b) detecting the ICE-LAP 3 or 4 protein in the biological sample.

85. (Previously presented) The method of claim 84 wherein the antibody or fragment thereof is a polyclonal antibody.

86. (Previously presented) The method of claim 84 wherein the antibody or fragment thereof is a monoclonal antibody.

87. (Currently amended) An isolated antibody or fragment thereof obtained from an animal that has been immunized with a protein comprising an amino acid sequence selected from the group consisting of:

(a) ~~a protein comprising~~ the amino acid sequence of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;

(b) ~~a protein comprising~~ the amino acid sequence of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;

~~(c) — a protein comprising an amino acid sequence of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875 consisting of at least 30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;~~

~~(d) — a protein comprising an amino acid sequence of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875 consisting of at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875;~~

(c) ~~(e)~~ a protein comprising the amino acid sequence of the full-length polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873; and

(d) ~~(f)~~ a protein comprising the amino acid sequence of the mature form of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873;

~~(g) — a protein comprising an amino acid sequence of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875 consisting of at least~~

~~30 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873; and~~

~~(h) — a protein comprising an amino acid sequence of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75875 consisting of at least 50 contiguous amino acid residues of the polypeptide encoded by the cDNA contained in ATCC Deposit Number 75873;~~

wherein said antibody or fragment thereof specifically binds to said amino acid sequence.

88. (Previously presented) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (a).

89. (Previously presented) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (b).

90. (Previously presented) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (c).

91. (Previously presented) The antibody or fragment thereof of claim 87 obtained from an animal immunized with protein (d).

92-95. (Canceled)

96. (Previously presented) The antibody or fragment thereof of claim 87 which is a monoclonal antibody.

97. (Previously presented) The antibody or fragment thereof of claim 87 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.

98. (Previously presented) An isolated antibody or fragment thereof that specifically binds an ICE-LAP 3 protein purified from a cell culture wherein said ICE-LAP 3 protein is encoded by a polynucleotide encoding amino acids 1 to 303 of SEQ ID NO:2 operably associated with a regulatory sequence that controls the expression of said polynucleotide.

99. (Previously presented) The antibody or fragment thereof of claim 98 which is a monoclonal antibody.

100. (Previously presented) The antibody or fragment thereof of claim 98 which is a human antibody.

101. (Previously presented) The antibody or fragment thereof of claim 98 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and

(e) an Fab fragment.

102. (Previously presented) The antibody or fragment thereof of claim 98 wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.

103. (Previously presented) An isolated antibody or fragment thereof that specifically binds an ICE-LAP 4 protein purified from a cell culture wherein said ICE-LAP 4 protein is encoded by a polynucleotide encoding amino acids 1 to 277 of SEQ ID NO:4 operably associated with a regulatory sequence that controls the expression of said polynucleotide.

104. (Previously presented) The antibody or fragment thereof of claim 103 which is a monoclonal antibody.

105. (Previously presented) The antibody or fragment thereof of claim 103 which is a human antibody.

106. (Previously presented) The antibody or fragment thereof of claim 103 which is selected from the group consisting of:

- (a) a chimeric antibody;
- (b) a polyclonal antibody;
- (c) a humanized antibody;
- (d) a single chain antibody; and
- (e) an Fab fragment.

107. (Previously presented) The antibody or fragment thereof of claim 103 wherein said antibody or fragment thereof specifically binds to said protein in an ELISA.